Name: _____ Date: _____

MATH MONKS

Dividing Radical Expressions

1. $\dfrac{4}{2\sqrt{3} - \sqrt{5}}$

2. $\dfrac{\sqrt{5} + 3}{4 - \sqrt{5}}$

3. $\dfrac{5}{-3 - 3\sqrt{3}}$

4. $\dfrac{\sqrt{5} + 2\sqrt{2}}{4 - 5}$

5. $\dfrac{3}{4 + 4\sqrt{5}}$

6. $\dfrac{\sqrt[3]{54x^3y^5}}{\sqrt[3]{16x^2y^2}}$

7. $\dfrac{4x^3 - 3x\sqrt{3}}{3\sqrt{3x^2}}$

8. $\dfrac{2 + 5\sqrt{3}}{-4 + 4\sqrt{2}}$

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MATH MONKS

Dividing Radical Expressions

Answers

1. $\dfrac{4}{2\sqrt{3} - \sqrt{5}}$

$= \dfrac{8\sqrt{3} + 4\sqrt{5}}{7}$

2. $\dfrac{\sqrt{5} + 3}{4 - \sqrt{5}}$

$= \dfrac{7\sqrt{5} + 17}{11}$

3. $\dfrac{5}{-3 - 3\sqrt{3}}$

$= \dfrac{5 - 5\sqrt{3}}{6}$

4. $\dfrac{\sqrt{5} + 2\sqrt{2}}{4 - 5}$

$= -5 - 2\sqrt{2}$

5. $\dfrac{3}{4 + 4\sqrt{5}}$

$= \dfrac{-3 + 3\sqrt{5}}{16}$

6. $\dfrac{\sqrt[3]{54x^3y^5}}{\sqrt[3]{16x^2y^2}}$

$= \dfrac{3y\sqrt[3]{x}}{2}$

7. $\dfrac{4x^3 - 3x\sqrt{3}}{3\sqrt{3x^2}}$

$= \dfrac{4\sqrt{3}\,x^2 - 9}{9}$

8. $\dfrac{2 + 5\sqrt{3}}{-4 + 4\sqrt{2}}$

$= \dfrac{2 + 2\sqrt{2} + 5\sqrt{3} + 5\sqrt{6}}{4}$